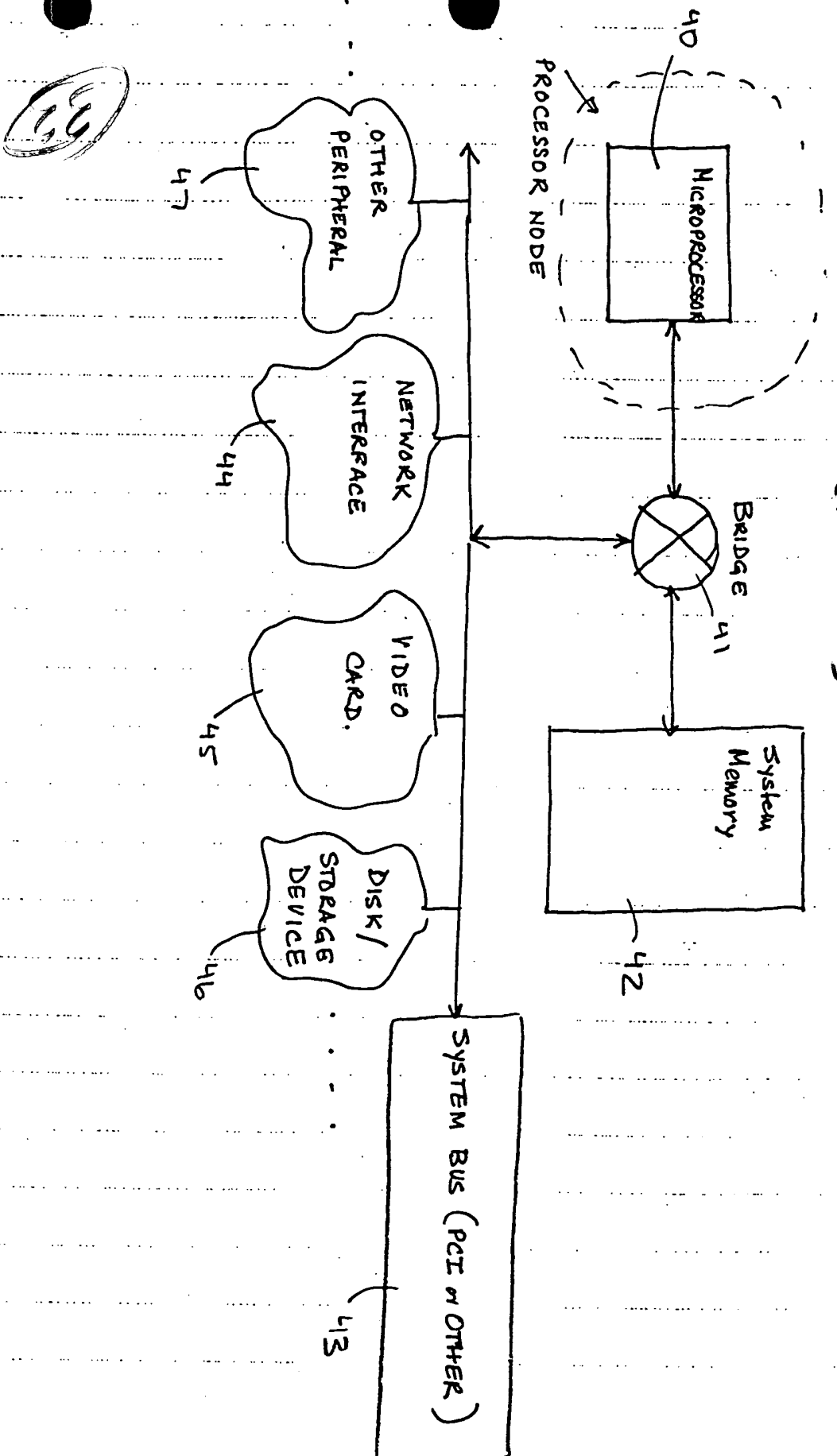


FIG. 1.
(PRIOR ART)



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Best Available Copy

FIG. 2.

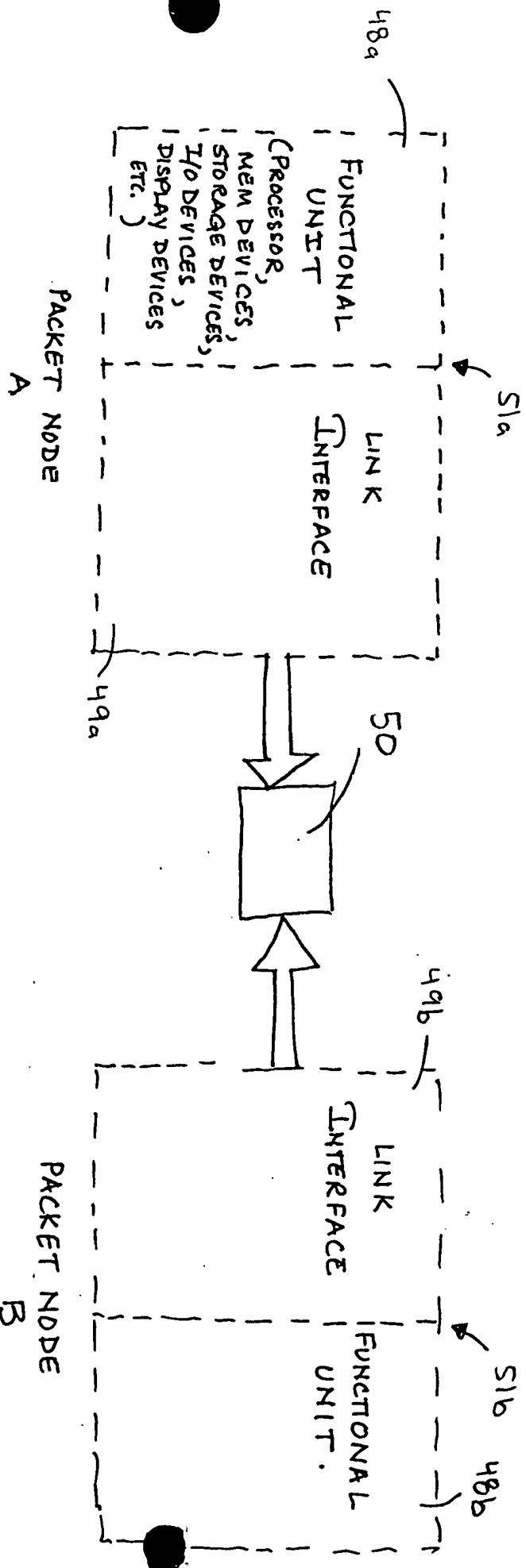
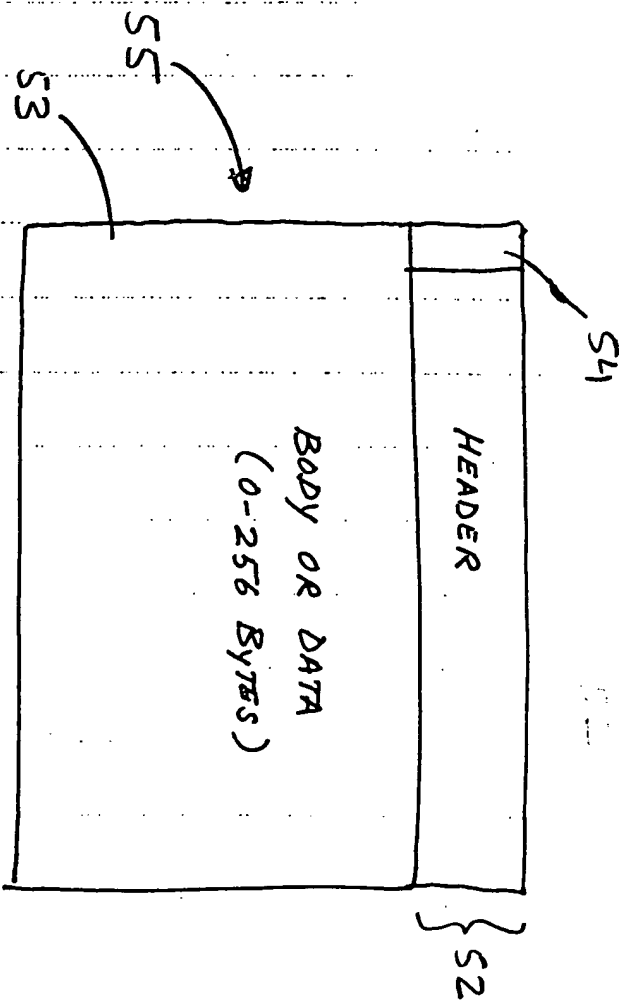


FIG. 3.



WIDTH = 2 BYTES

SIZE = 2 BYTES TO A MAXIMUM OF 258 BYTES.

FIG. 4.

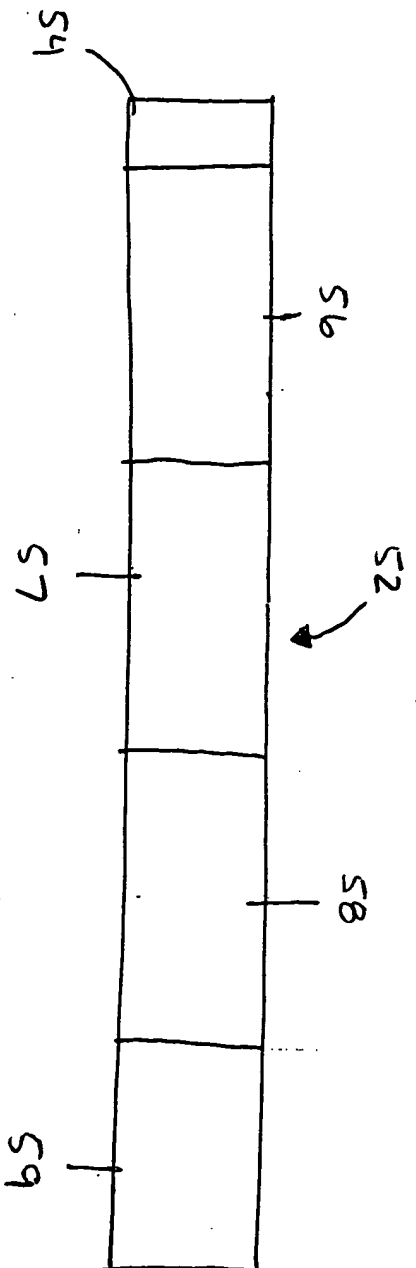


FIG 5.

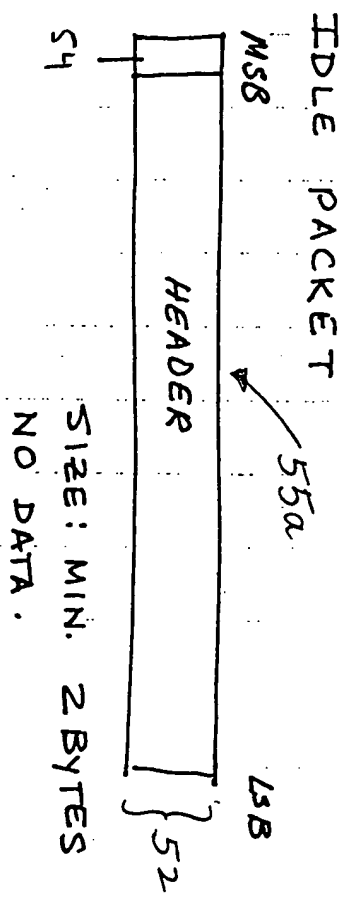
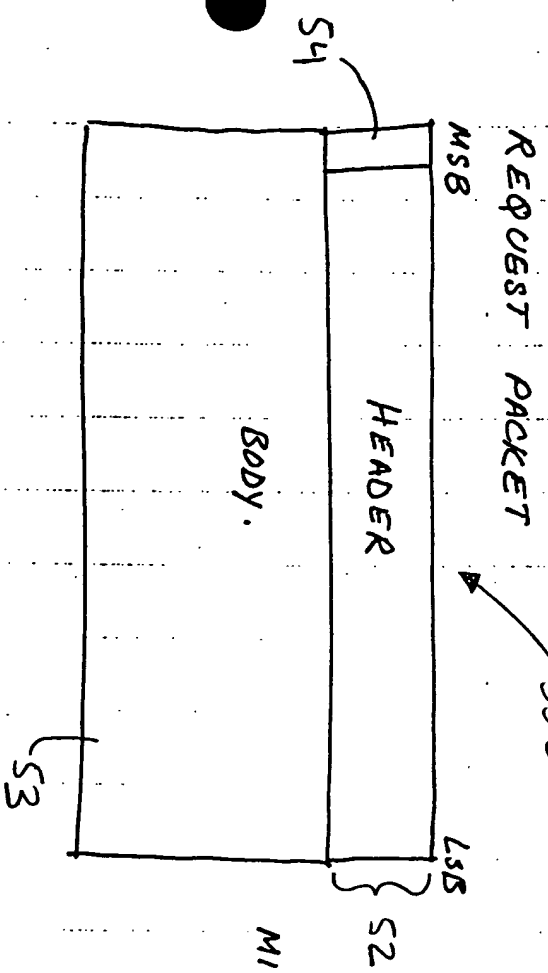


FIG. 6.



MIN SIZE: 4 BYTES MAX SIZE: 258 BYTES.

FIG. 7.

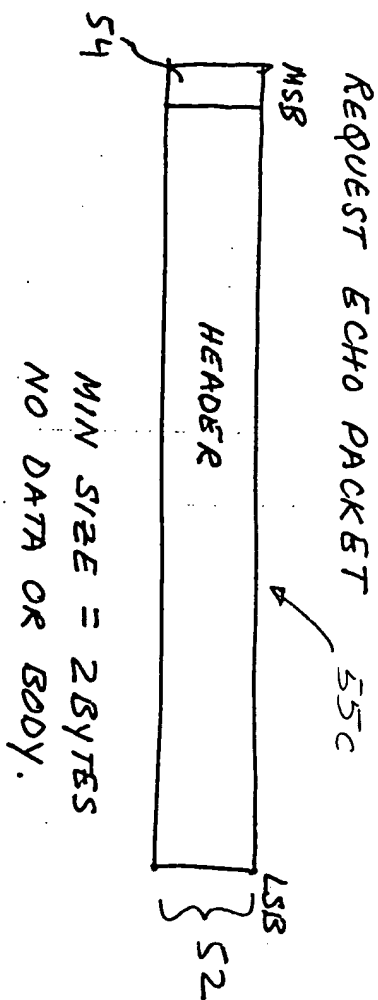


FIG. 8 RESPONSE PACKET

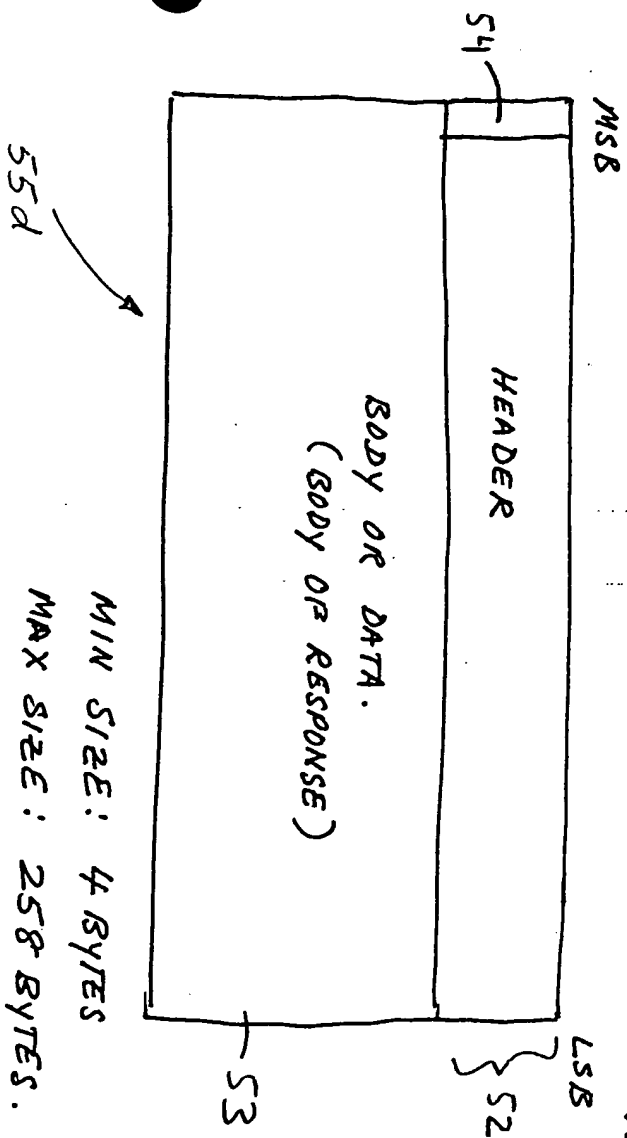


FIG. 9.

FUNCTIONAL DIAGRAM OF LINK INTERFACE

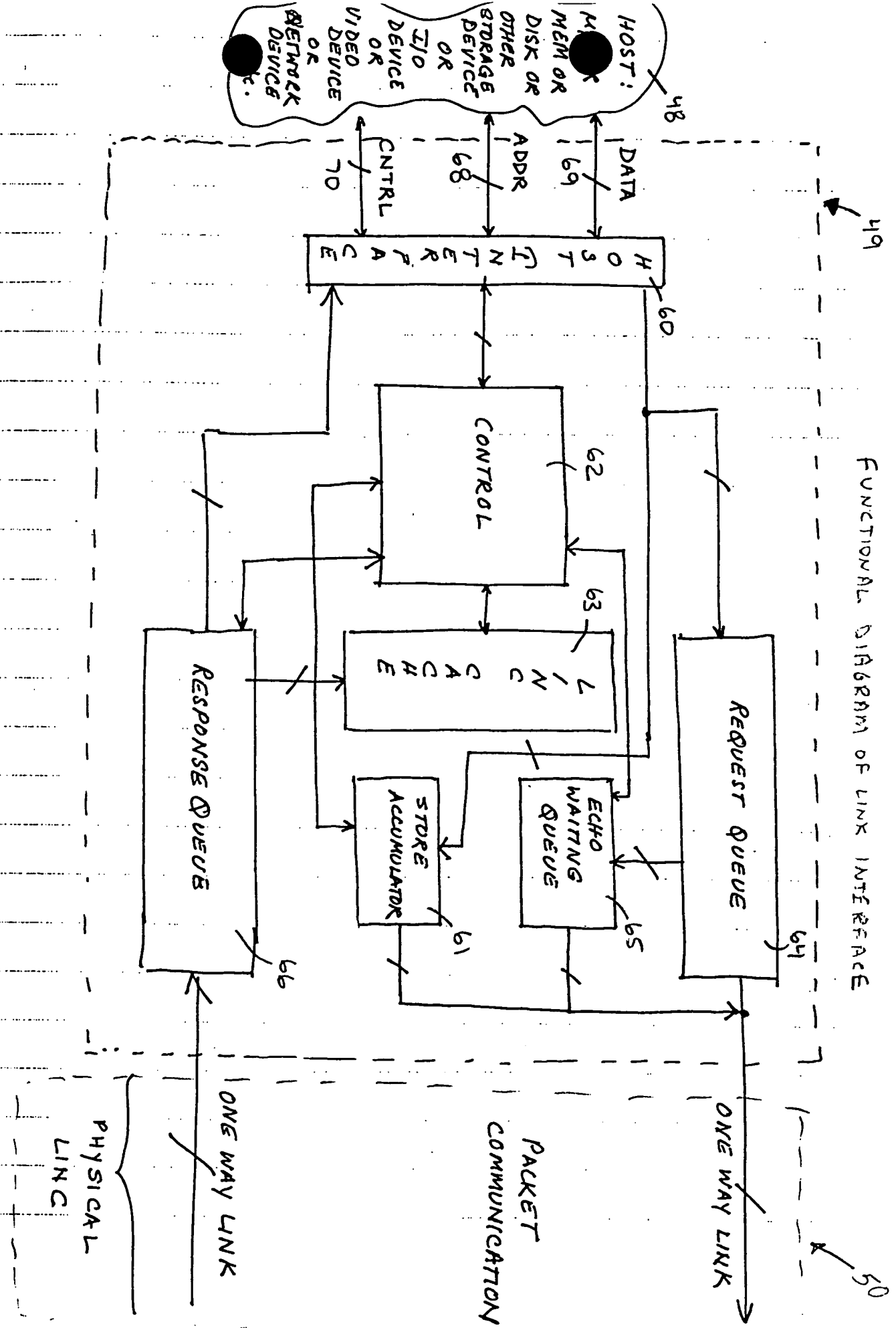
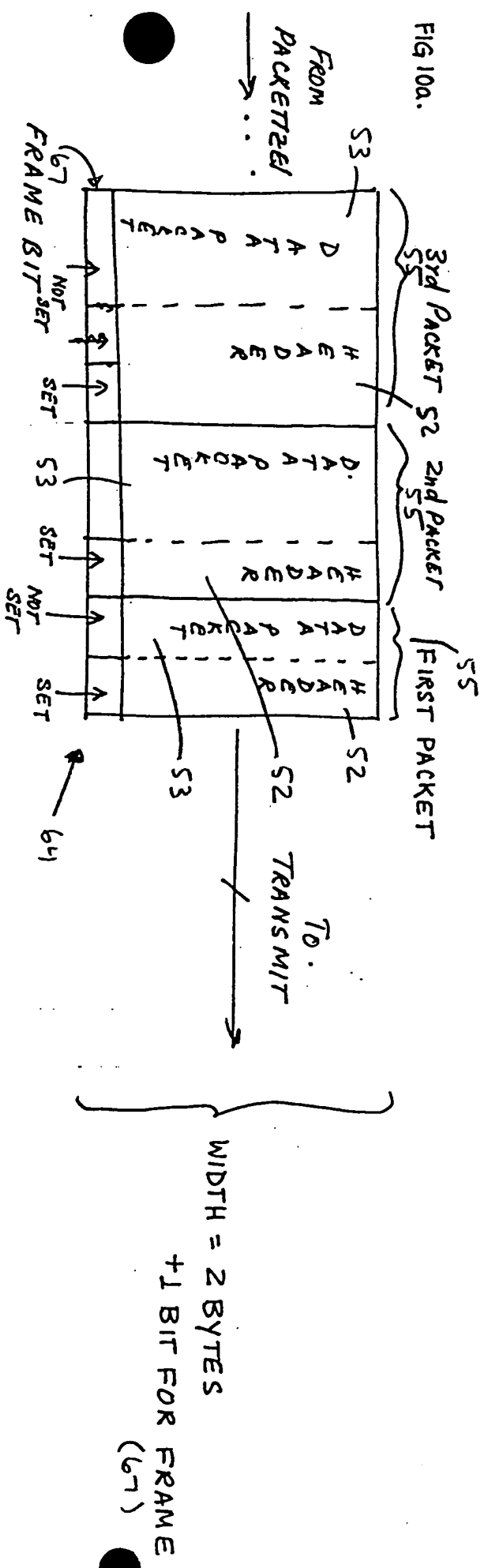


FIG. 10 POSSIBLE REQUEST QUEUE STRUCTURES



DEPTH = $n \times$ MAXIMUM PACKET SIZE (258 BYTES)
 $n = 1, 2, 3 \dots$

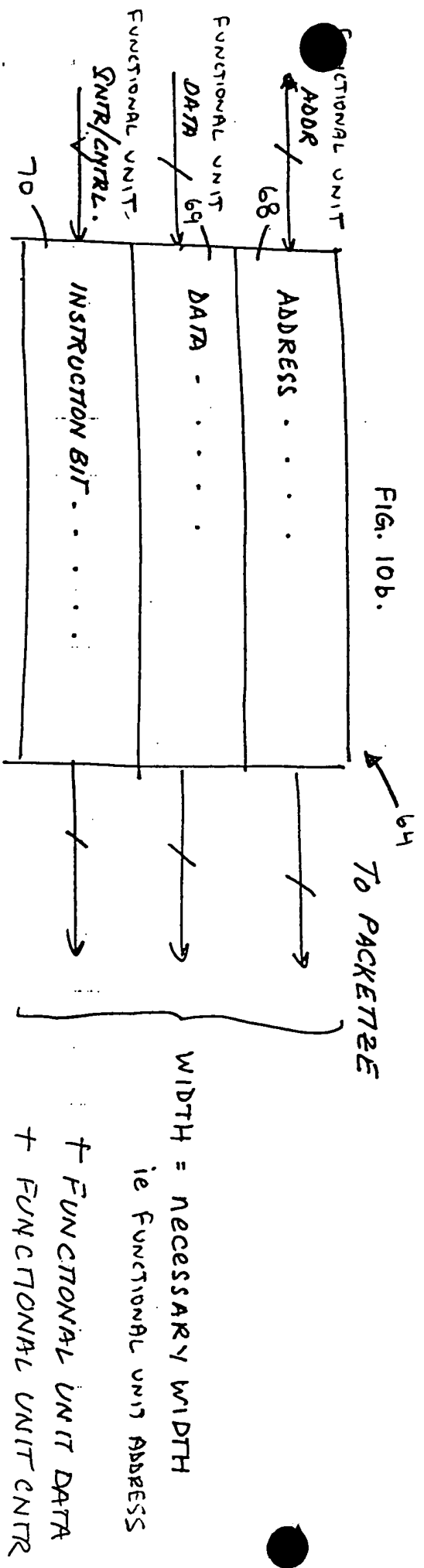
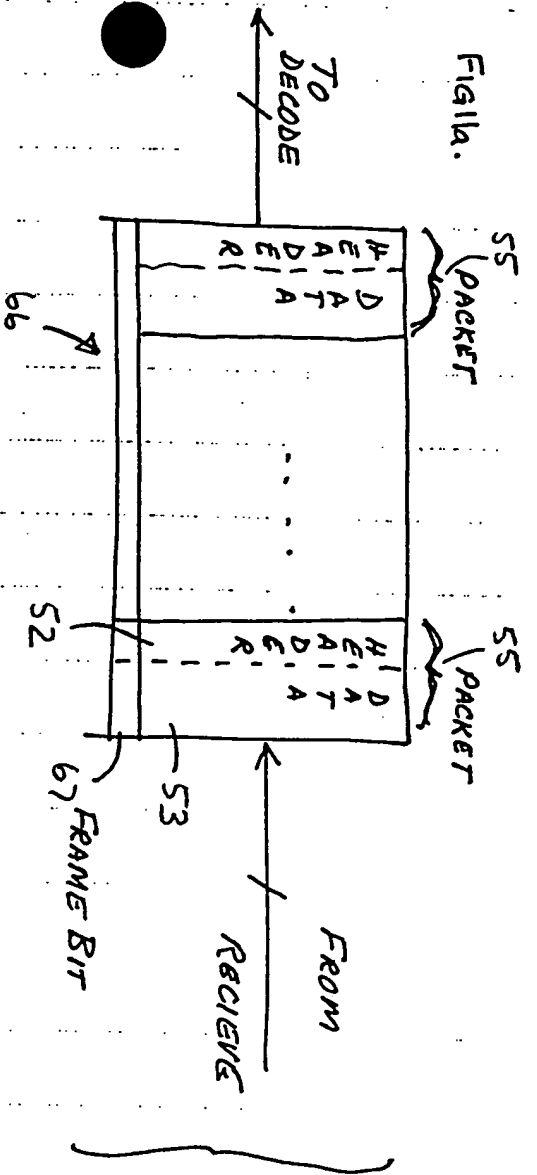


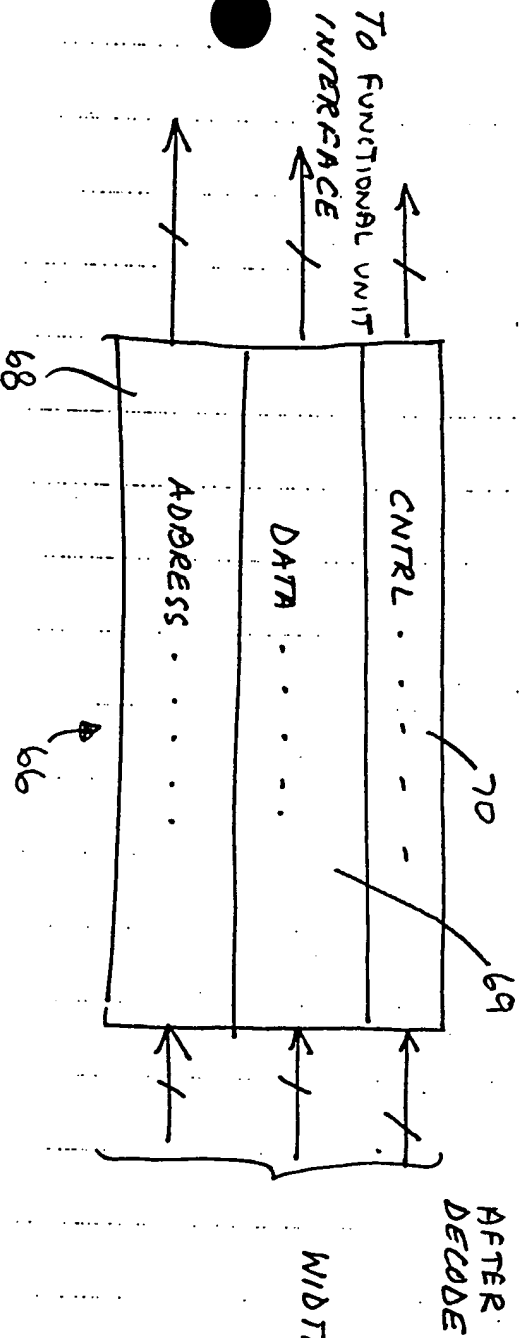
FIG 11.

POSSIBLE RESPONSE QUEUE STRUCTURES.



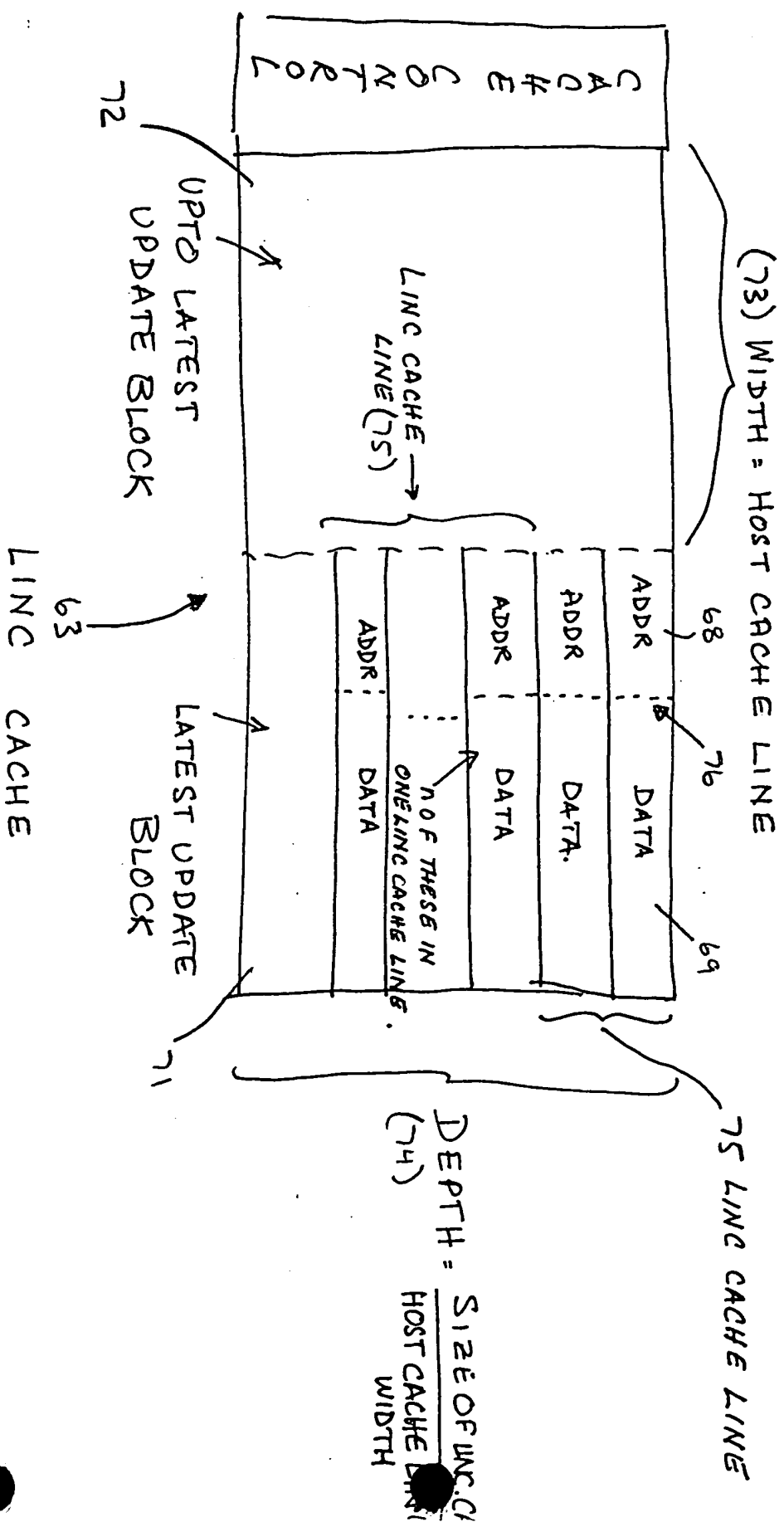
WIDTH = 2 BYTES
+ 1 BIT FOR FRAME

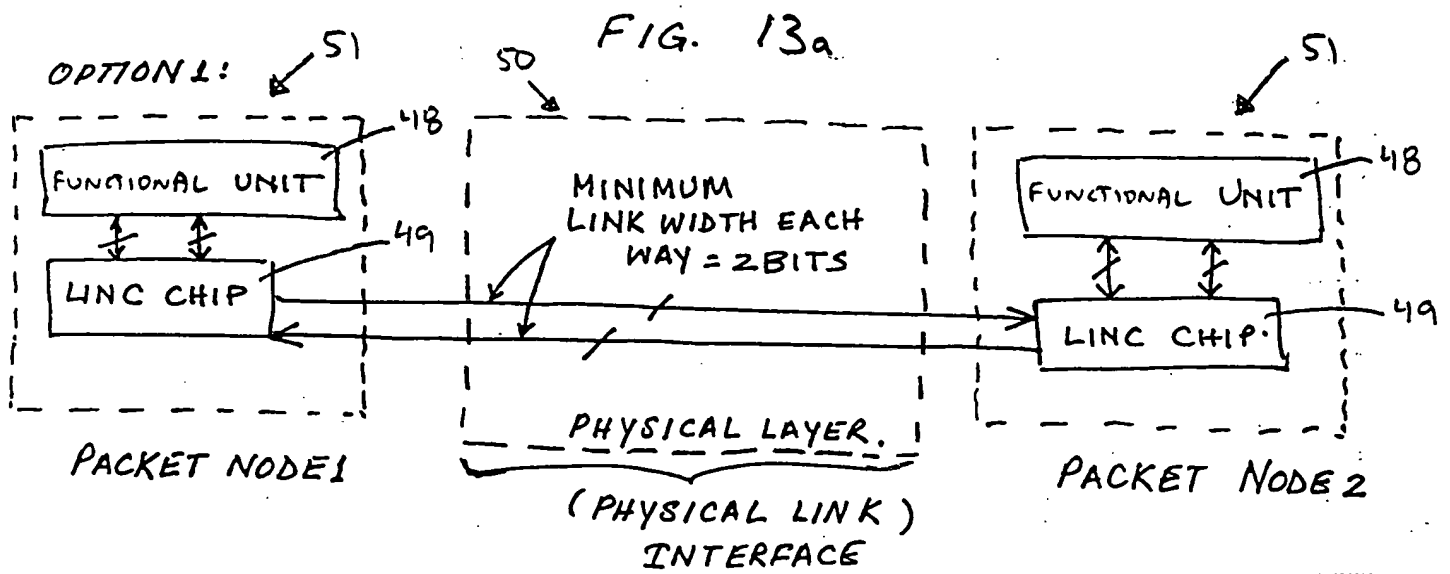
FIG 11b.



WIDTH = NECESSARY WIDTH

FIG. 12.





A SAMPLE TWO NODE LINK WHERE NODE1 FUNCTIONAL UNIT IS THE PROCESSOR AND NODE2 FUNCTIONAL UNIT IS THE MEMORY.

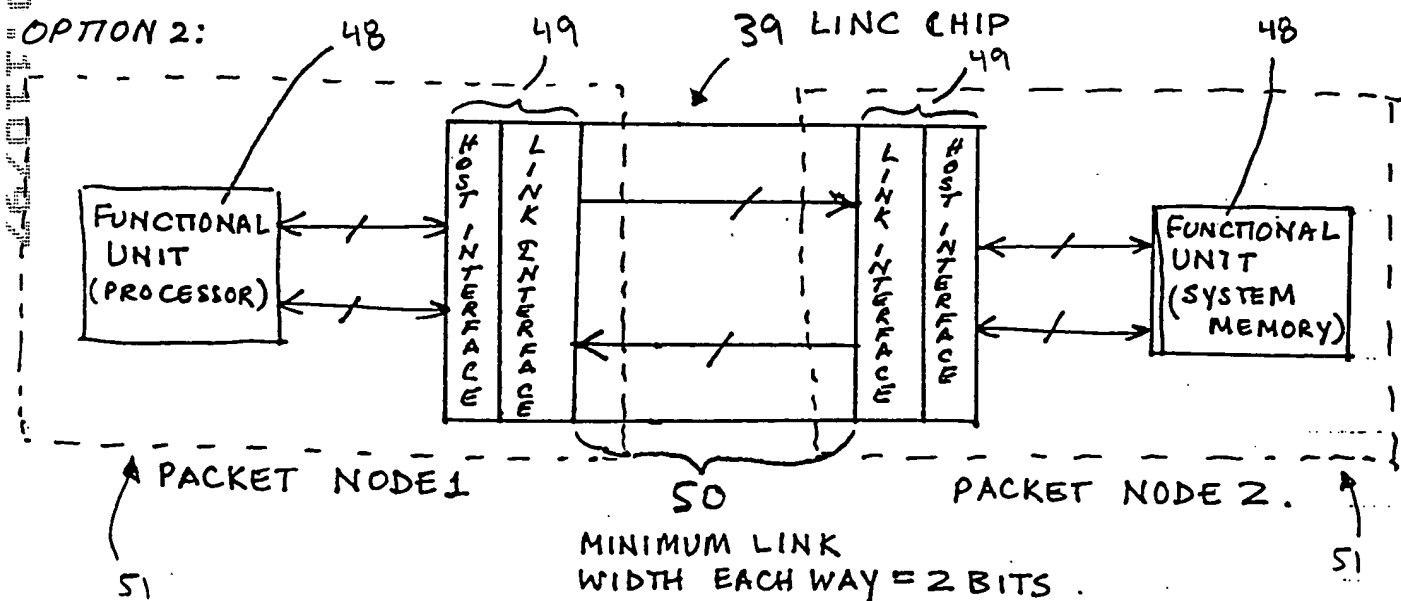


FIG. 13b

FIG. 14.

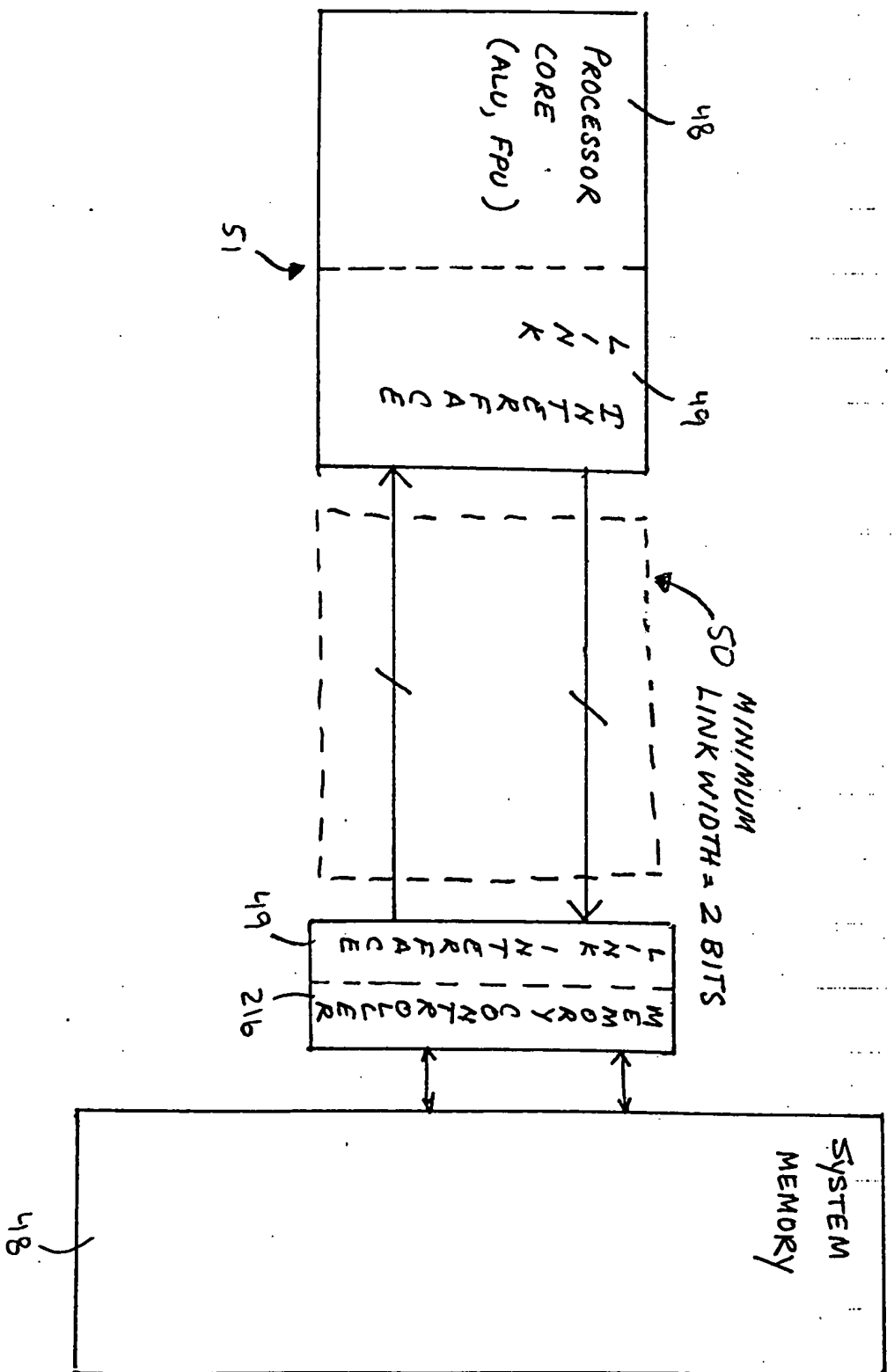


FIG. 14.

FIG. 15

IDLE PACKET:

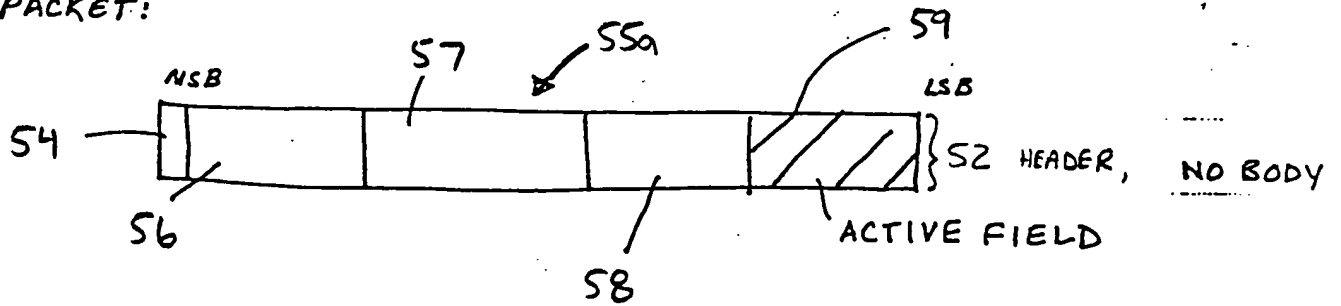


FIG. 16

REQUEST PACKET:

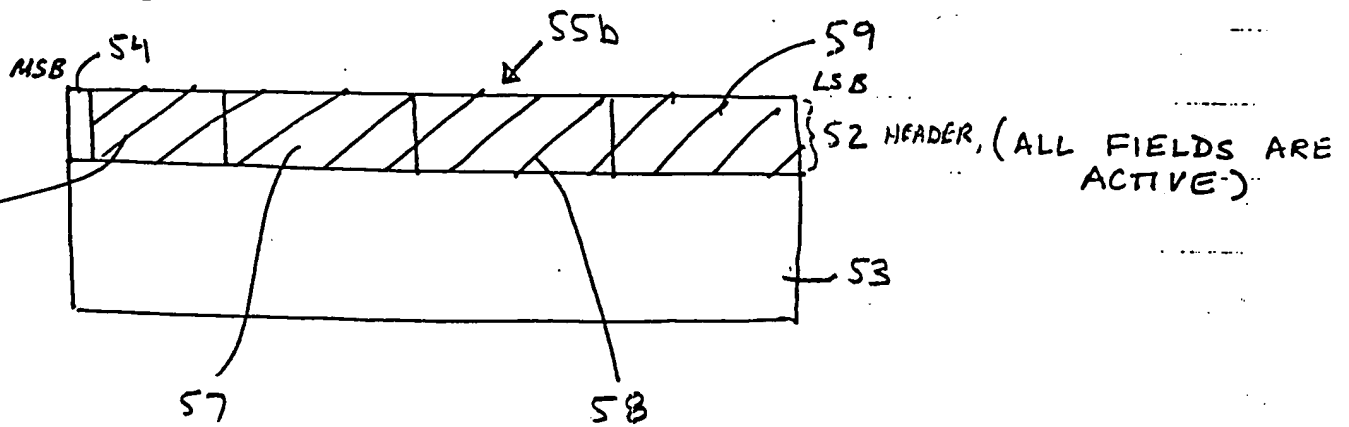


FIG. 17

REQUEST ECHO PACKET:

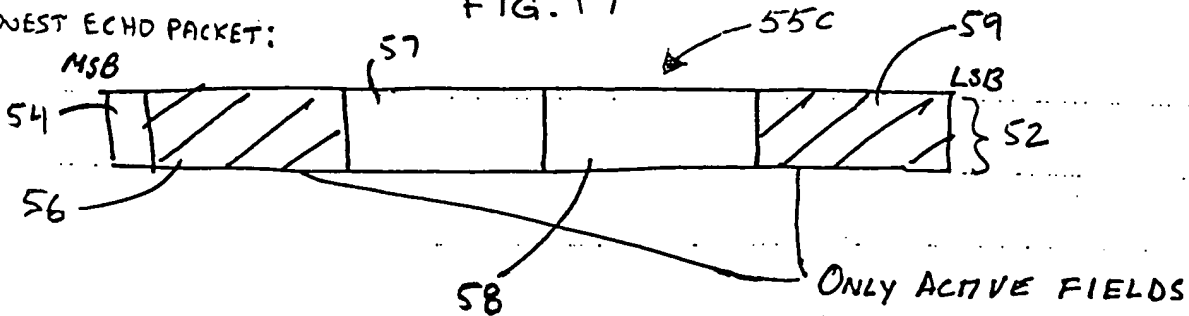


FIG. 18

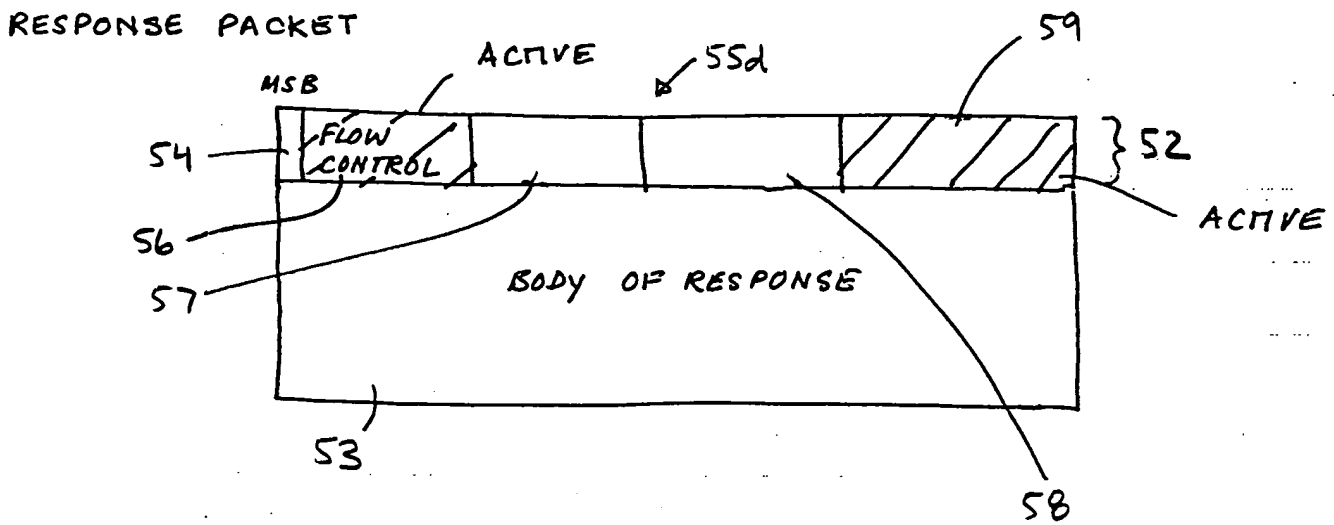
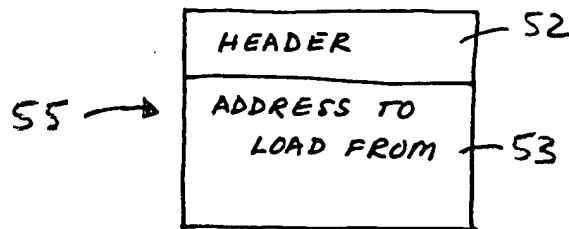
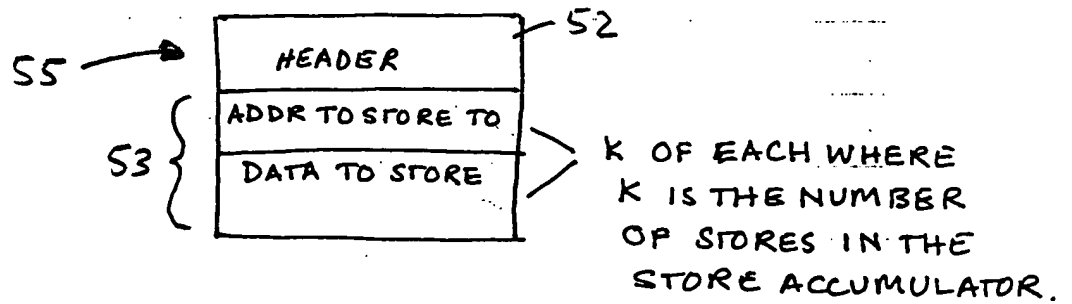


FIG. 19

REQUEST PACKET FOR A LOAD.



REQUEST PACKET FOR A STORE



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FIG. 20

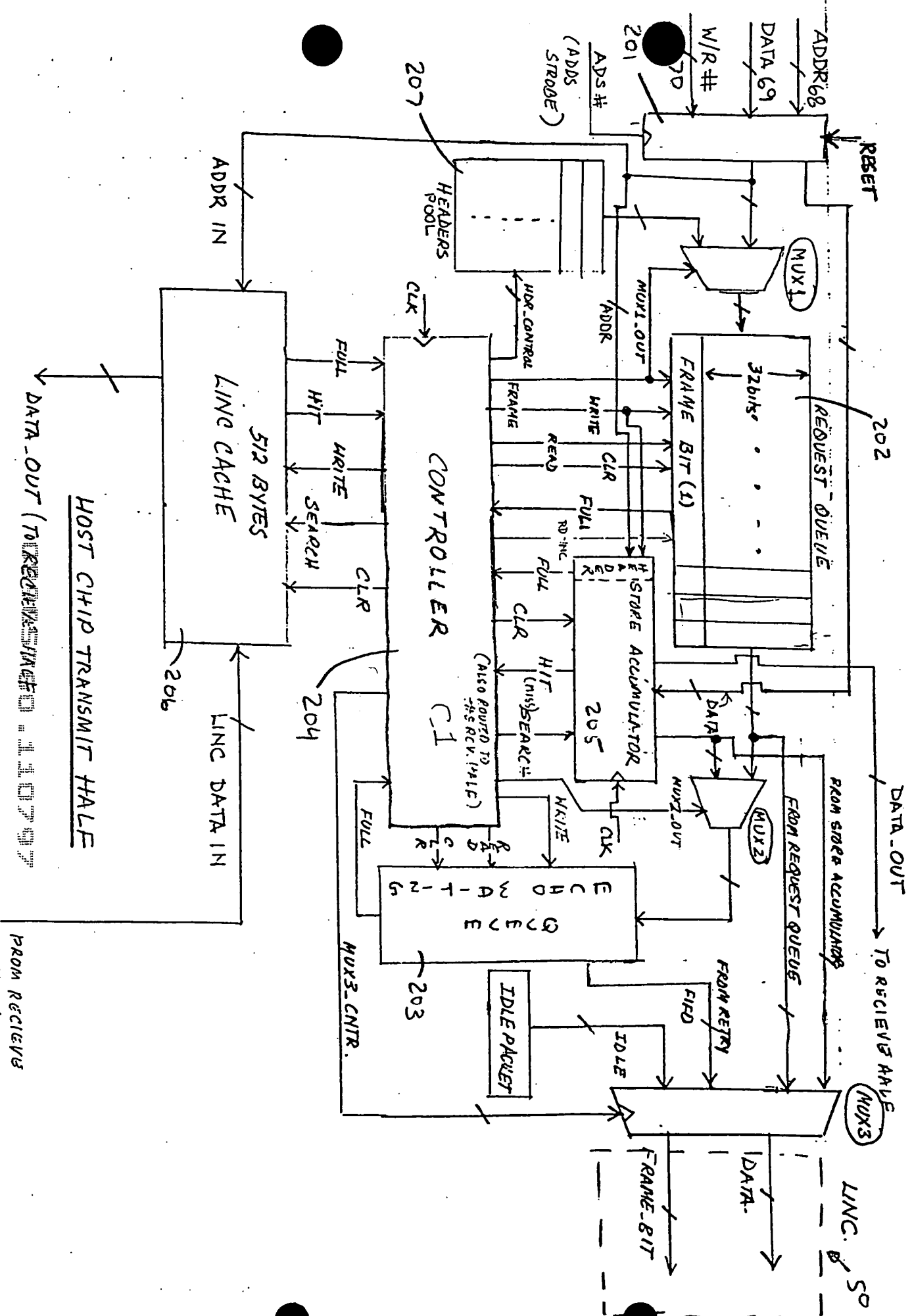
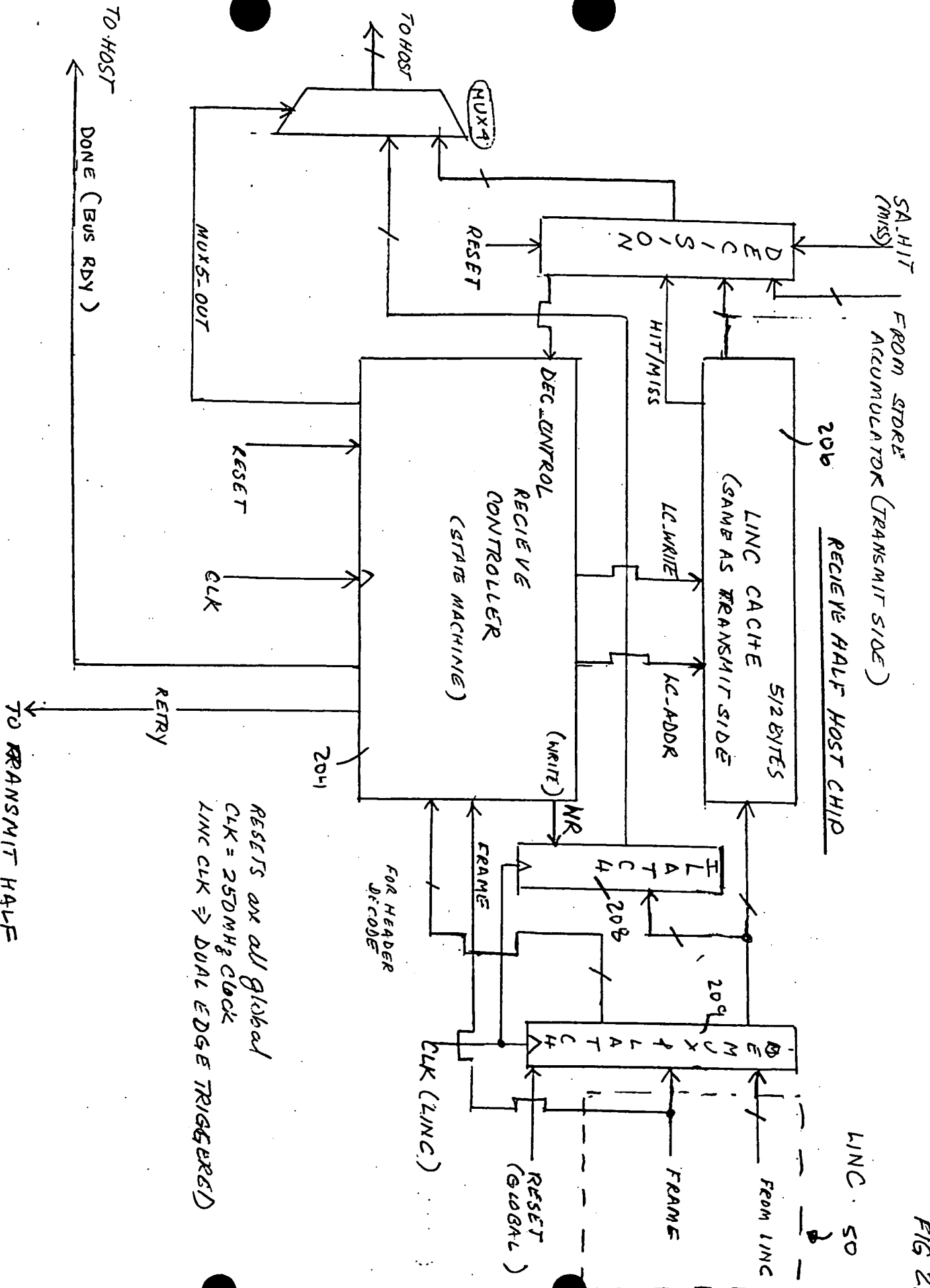
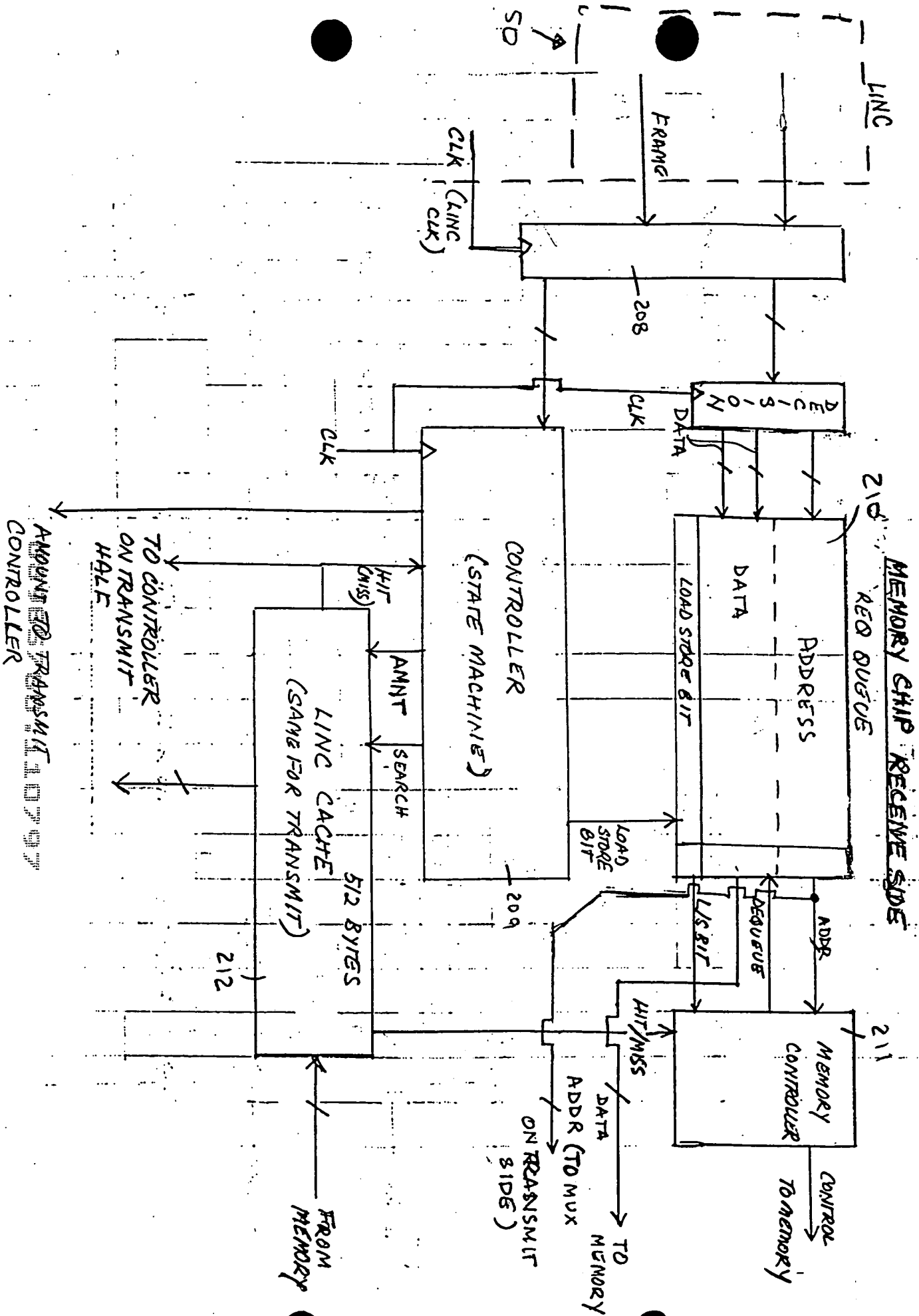


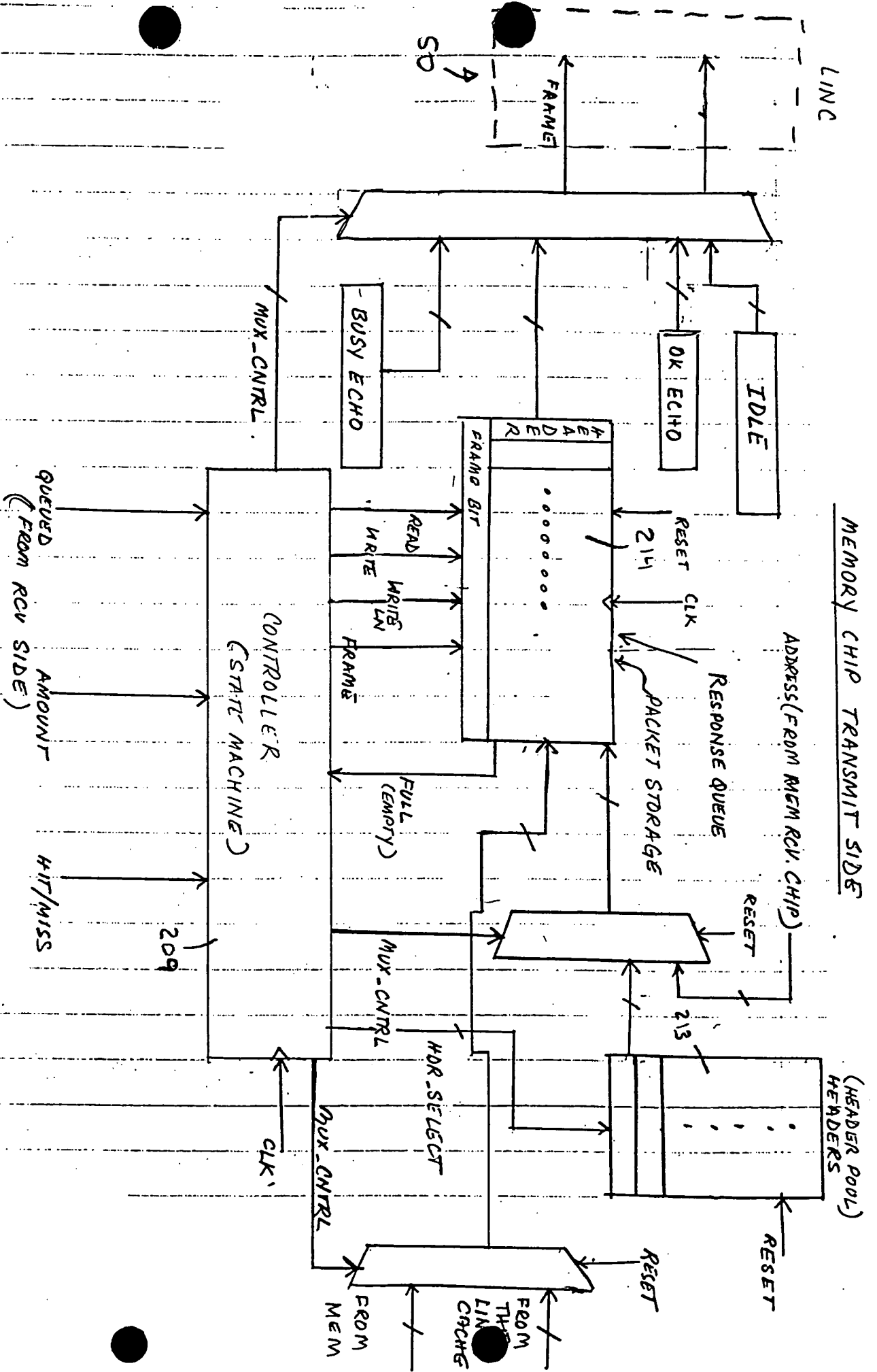
FIG 21



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FIG. 22





MEMORY CHIP TRANSMIT SIDE

FIG. 23

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FIG. 24

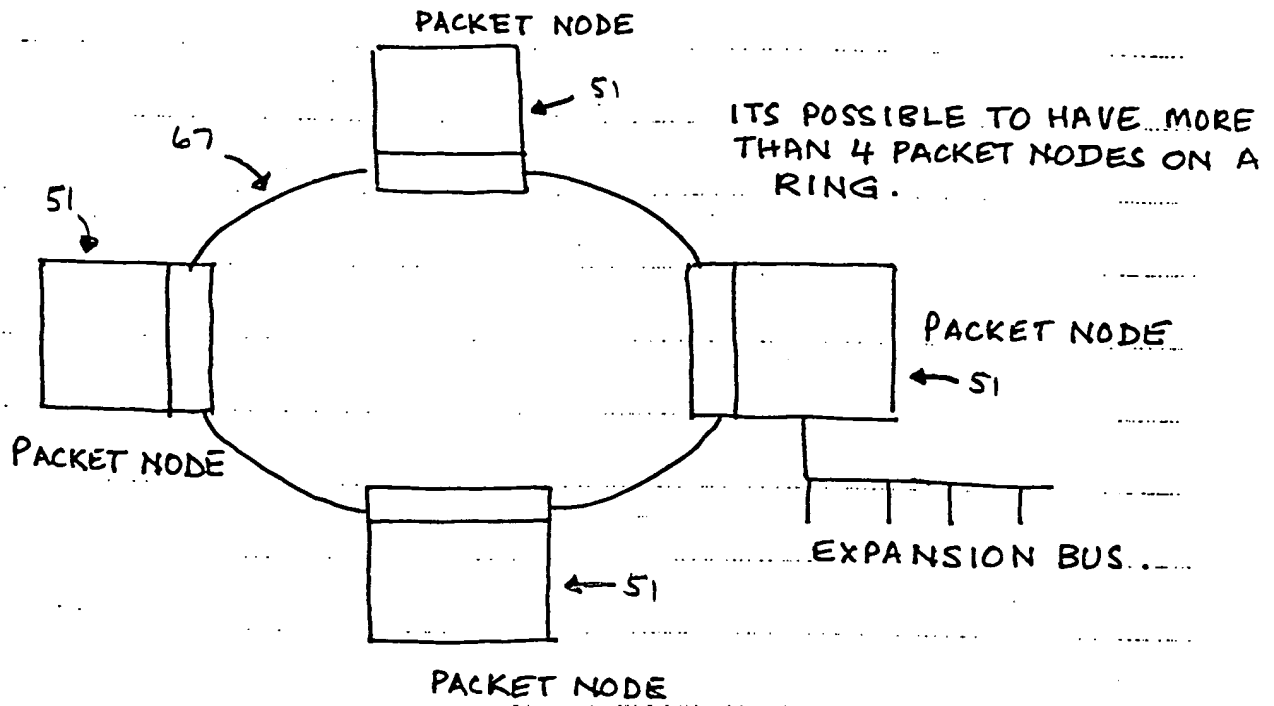
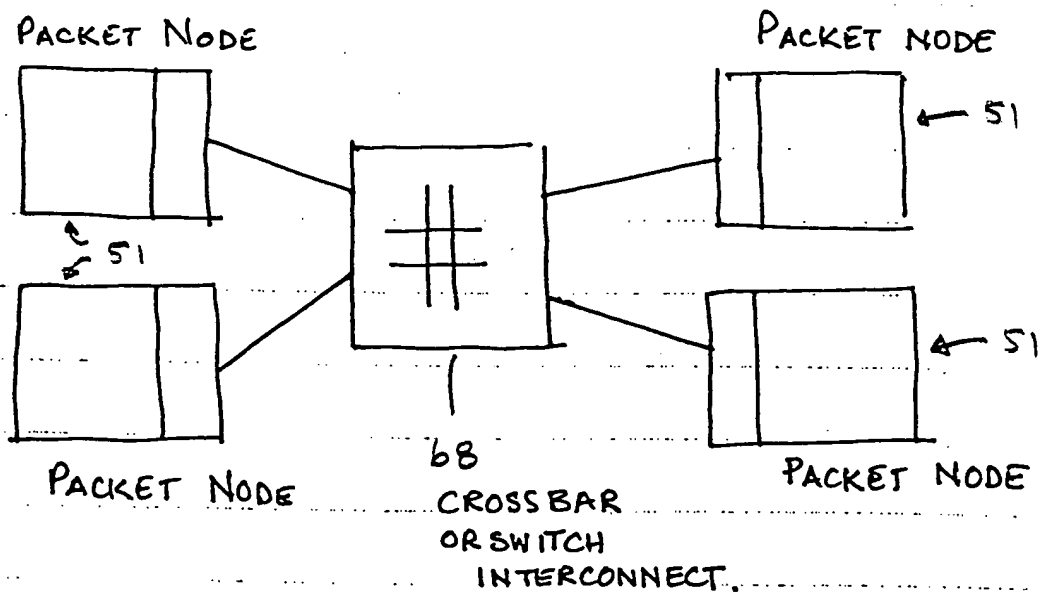
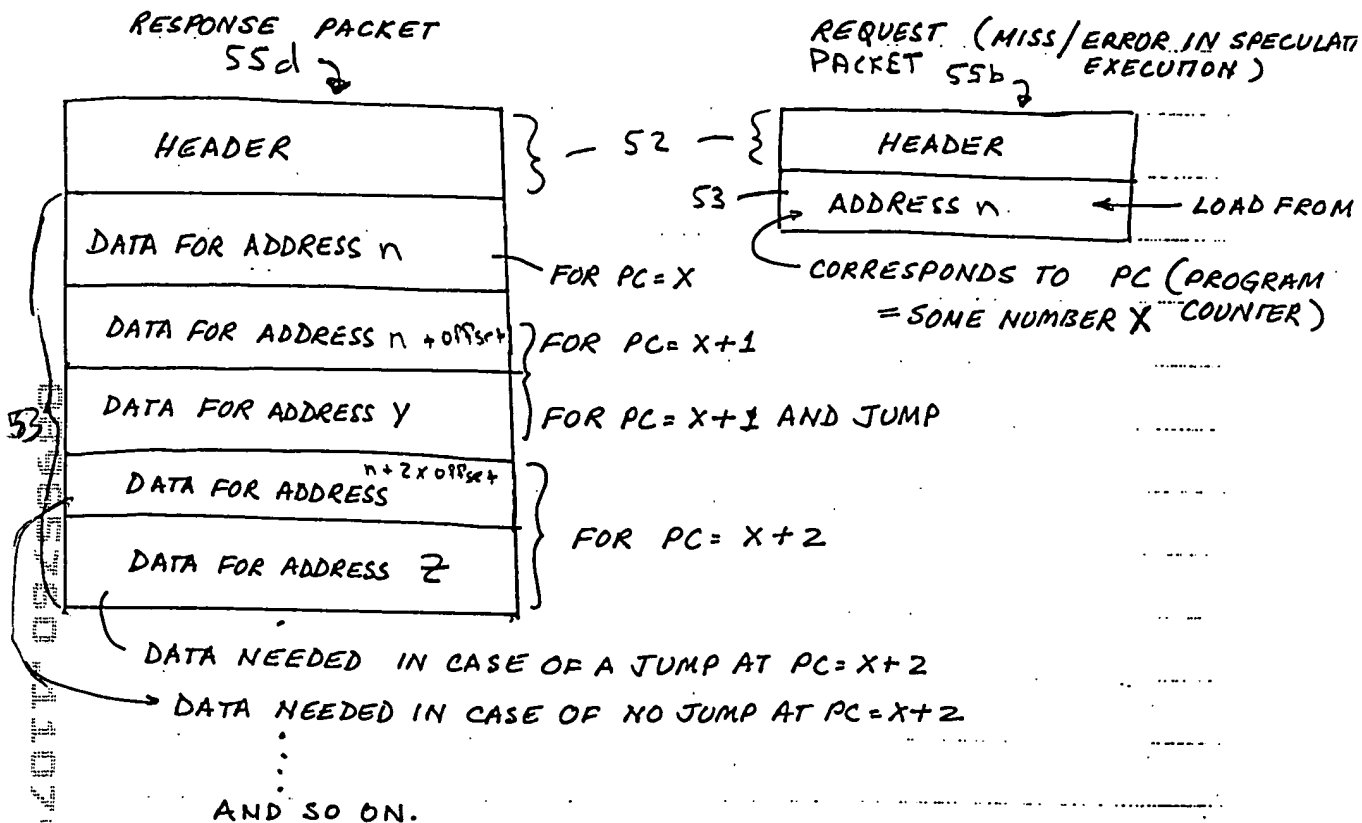


FIG. 25



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POSSIBLE RESPONSE PACKETS FOR A REQUEST WHEN ACCESS TO
TLB AND OR BTB IN THE PROCESSOR IS AVAILABLE



FOR PROGRAMS WITH VERY HIGH LOCALITY (GRAPHICS, MULTIMEDIA ETC.)

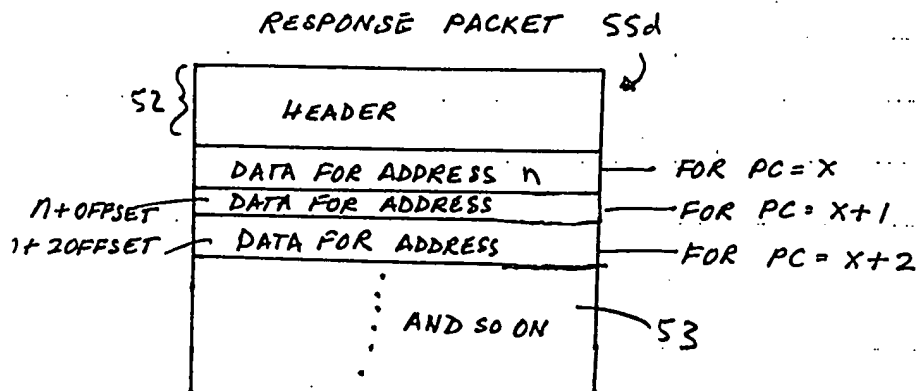
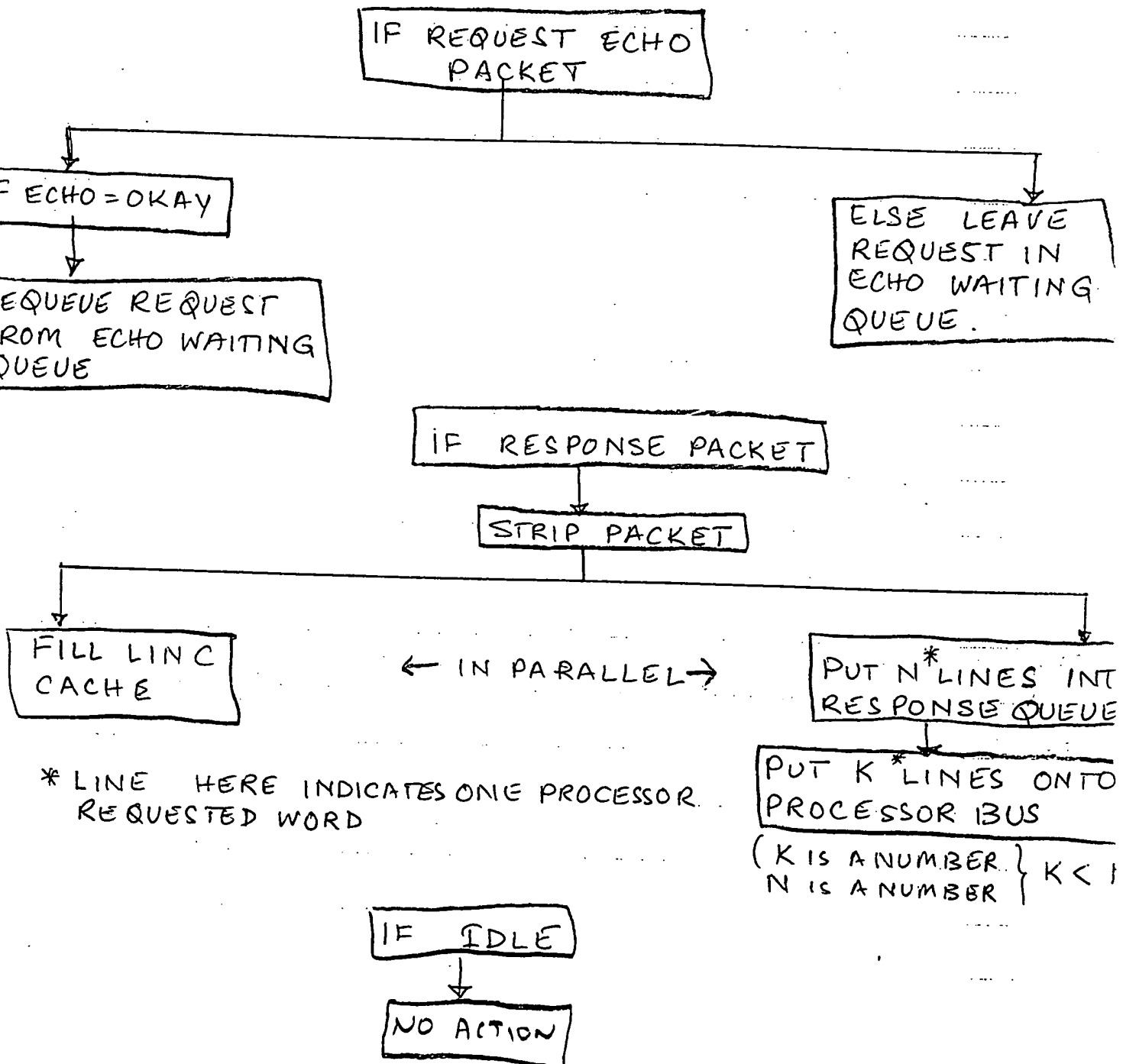


FIG. 27.

PROCESSOR NODE RECEIVE PROTOCOL

FOR PRESENT DETAILED IMPLEMENTATION THE MEMORY NODE IS EXPECTED TO SEND ONLY THE FOLLOWING PACKETS

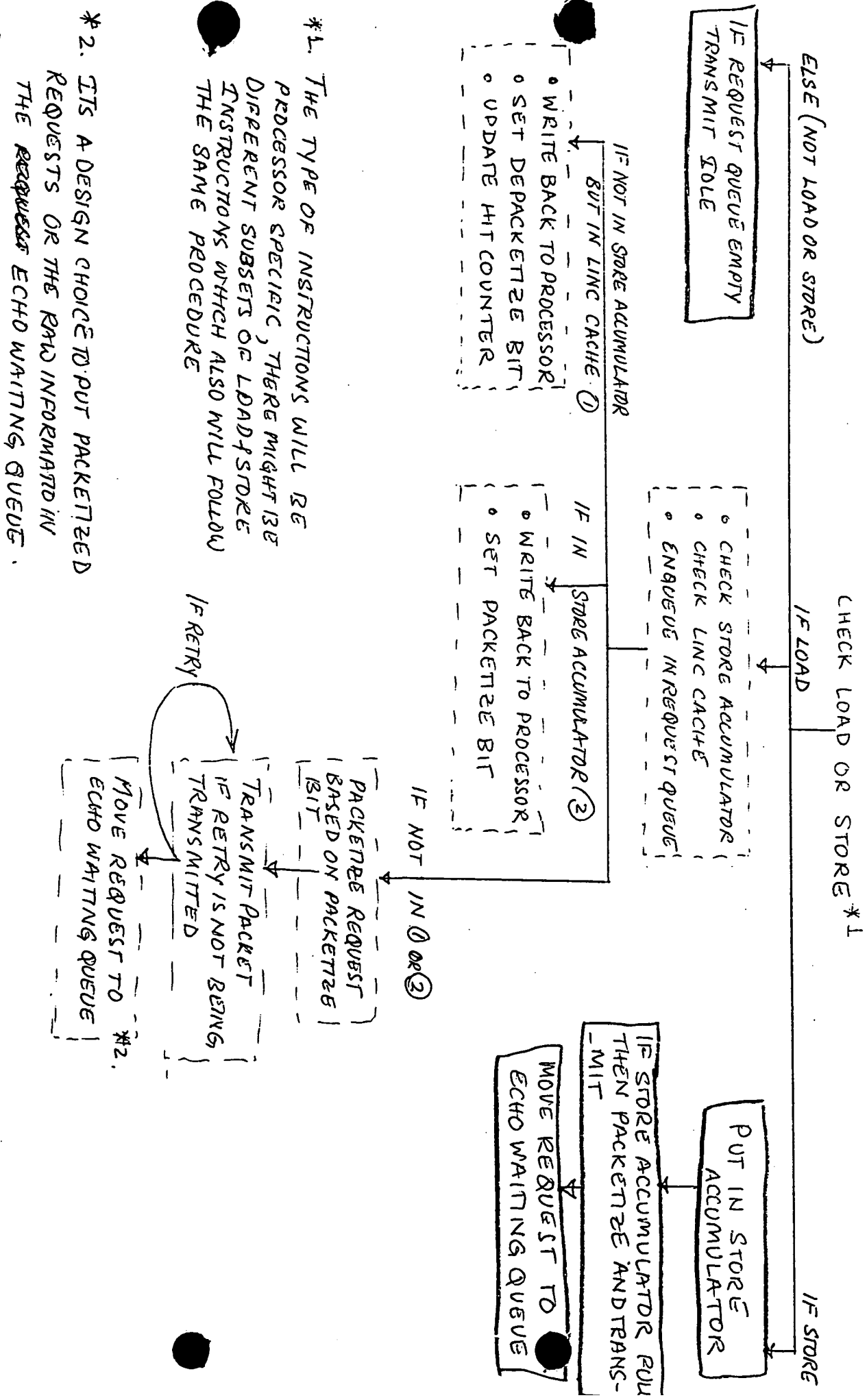
00965750-110797



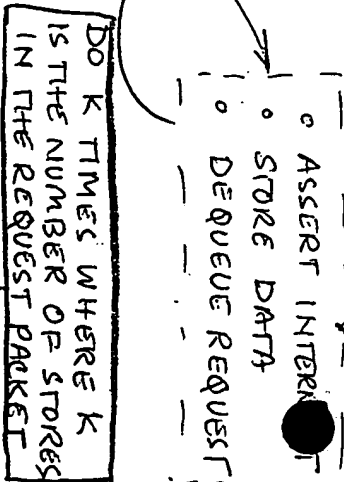
PROCESSOR NODE TRANSMIT PROTOCOL

FIG. 28.

ALL ACTIONS WITHIN [] HAPPEN IN PARALLEL



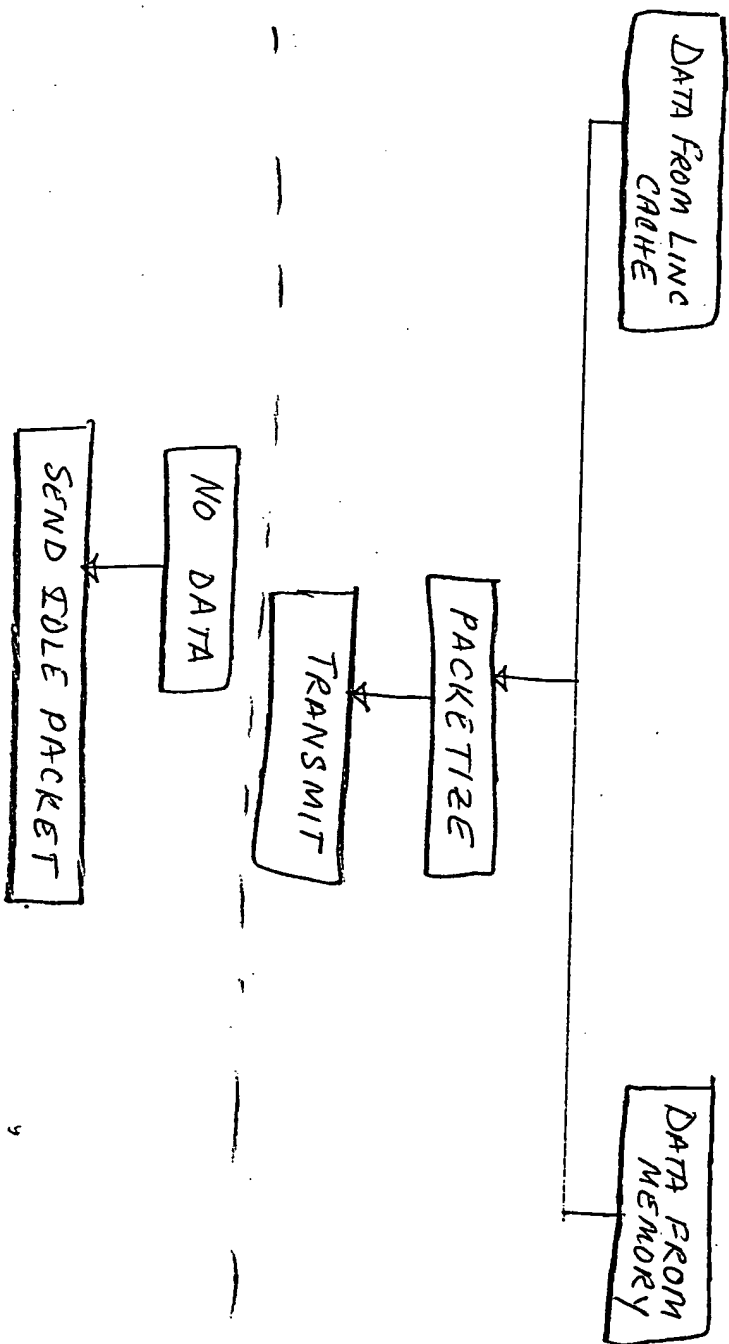
11G.29.



DISEASES OF THE DIGESTIVE TRACT

MEMORY NODE TRANSMIT PROTOCOL.

FIG. 30



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